	Application No.	Applicant(s)	
	09/939,145	QIU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Christopher M. Keehan	1712	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in the state of the st	his application. If not includication will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>the application filed</u>	<u>8/24/01</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-17</u> .			
3. The drawings filed on are accepted by the Examin	er.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Application I	No	ntion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a MENT of this application.	reply complying with the re-	quirements
 A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi 	nitted. Note the attached EXAM ves reason(s) why the oath or do	INER'S AMENDMENT or Neclaration is deficient.	IOTICE OF
 6. CORRECTED DRAWINGS (as "replacement sheets") musical including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT 	rson's Patent Drawing Review (r's Amendment / Comment or in 1.84(c)) should be written on the the header according to 37 CFR and the first of BIOLOGICAL MATER	the Office action of drawings in the front (not the 1.121(d). RIAL must be submitted. I	•
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date リーシュ 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma /08), 7. ☑ Examiner's An	rmal Patent Application (PTo nmary (PTO-413), ail Date mendment/Comment atement of Reasons for Allo	,

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jian Zhou on July 20, 2004.

The application has been amended as follows: on page 1, line 6 of the specification, --Cross-Reference to Related Application

This application claims the benefit of provisional application 60/228,022, filed August 24, 2000.-- has been inserted.

In claim 5, "any one of claims 1 to 4" has been replaced with —claim 1—. In claim 6, "any one of claims 1 to 5" has been replaced with —claim 1—. In claim 7, "any one of claims 1 to 6" has been replaced with —claim 1—. In claim 9, "any one of claims 1 to 8" has been replaced with —claim 1—. In claim 10, "any one of claims 1 to 9" has been replaced with —claim 1—. In claim 11, "any one of claims 1 to 10" has been replaced with —claim 1—. In claim 13, "claims 11 or 12" has been replaced with —claim 12—. In claim 14, "any one of claims 1 to 13" has been replaced with —claim 12—.

In the Abstract, delete the current Abstract and replace with the following:

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-The invention relates to a process for coating a material surface, comprising the steps of: (a) applying to the material surface a tie layer comprising a polyionic material; (b) covalently binding a bifunctional compound comprising an ethylenically unsaturated double bond to the tie layer; and (c) graft polymerizing a hydrophilic monomer onto the compound comprising the ethylenically unsaturated double bond. The coated articles that are obtainable by the process of the invention have desirable characteristics regarding adherences to the substrate, durability, hydrophilicity, wettability, biocompatibility and permeability and are thus useful for the manufacture of biomedical articles such as ophthalmic devices.--.

The following is an examiner's statement of reasons for allowance: a reasonable search of the prior art failed to reveal the limitations as set forth in claim 1. Winterton et al. (WO 99/35520) disclose coating a substrate with a polycationic material, and repeating this coating step, which could meet the limitation of step (b). Winterton et al. do not teach or disclose step (c), graft polymerizing a hydrophilic monomer onto the layer produced in step (b). Chabrecek et al. (5,527,925) disclose coating a substrate comprising covalently bonded initiator molecules to a substrate that has been functionalized by plasma treatment, and then graft polymerizing a hydrophilic macromonomer of ethylenic unsaturation to this layer. Chabrecek et al. do not teach or disclose applying a layer comprising a polyionic material to the substrate.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Keehan whose telephone number is (571) 272-1087. The examiner can normally be reached on Monday-Friday, from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Keehan DAVID J. BUTTNER PRIMARY EXAMINER

July 20, 2004

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